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Sequence Listing was accepted.

If you need help call the Patent Electronic Business Center at (866)
217-9197 (toll free).

Reviewer: Keisha Douglas

Timestamp: [year=2008; month=10; day=10; hr=15; min=28; sec=11; ms=868;

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## Validated By CRFValidator v 1.0.3

Application No: 10585077 Version No: 2.0

Input Set:

Output Set:

**Started:** 2008-10-07 15:13:22.356

Finished: 2008-10-07 15:13:25.344

**Elapsed:** 0 hr(s) 0 min(s) 2 sec(s) 988 ms

Total Warnings: 13

Total Errors: 0

No. of SeqIDs Defined: 32

Actual SeqID Count: 32

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## SEQUENCE LISTING

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<110> CHRISTENSEN, GEIR
     ANDERSSON, KRISTIN BREVIK
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<130> 3657-1037
<140> 10585077
<141> 2008-10-07
<150> PCT/NO04/000397
<151> 2004-12-22
<150> 60/533,740
<151> 2003-12-30
<160> 32
<170> PatentIn Ver. 3.3
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acceggetee acctegtggg gettggeteg gegeggegee egaeggetge gagaggeegg 180
cggtccacgc gcgggtctgg gccatcgccg accttagggg tctcgaatca agcttatcga 240
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<223> Description of Artificial Sequence: Synthetic

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gtttaagtct gacccagggg gatccggaac ccttaatata acttcgtata atgtatgcta 180
tacgaagtta ttaggtccct cgacctgcag cccaagctga tcctctagtc gagccccagc 240
tggttctttc cgcctcagaa gccatagagc ccaccgcatc cccagcatgc ctgctattgt 300
tactcagaca atgcgatgca atttcctcat tttattagga aaggacagtg ggagtggcac 420
cttccagggt caaggaaggc acgggggagg ggcaaacaac agatggctgg caactagaag 480
gcacagtcga ggctgatcag cgagctctag ctagagaatt gatcccctca gaagaactcg 540
tcaagaaggc gatagaaggc gatgcgctgc gaatcgggag cggcgatccg taaagcacga 600
ggaagcggca gcccattcgc cgccaagctc tttcagcaat atcacgggta gccaacgcta 660
tgtctgataa gcggtccgcc cacacccaac cggccacaag tcatgaaatc caaaaaagcg 720
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cgtagacgat atcgtcgcgc gaacccaggg ccaccagcaa gttgcgtggt ggtggttttc 180
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gcacgctgtt gacgctgtta agcgggtcgc tgcagggtcg ctcggtgttc gaggccacac 480
gegteacett aatatgegaa gtggaeeteg gaeegegeeg eeeegaetge atetgegtgt 540
tcgaattcgc caatgacaag acgctgggcg gggtttgctc gacattgggt ggaaacattc 600
caggcctggg tggagaggct ttttgcttcc tcttgcaaaa ccacactgct cgacattggg 660
tggaaacatt ccaggectgg gtggagagge tttttgcttc ctcttgaaaa ccacactgct 720
cgatccggaa cccttaatat aacttcgtat aatgtatgct atacgaagtt attaggtccc 780
tegacetgea geceaagetg ateetetaga gtegaceteg atetgtggte atggeeteta 840
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<212> DNA

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<213> Mus musculus

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Gly Val Ser Glu Thr Thr Gly Leu Thr Pro Asp Gln Val Lys Arg His 2.0 2.5

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Leu Trp Glu Leu Val Val Glu Gln Phe Glu Asp Leu Leu Val Arg Ile 55

Leu Leu Ala Ala Cys Ile Ser Phe Val Leu Ala Trp Phe Glu Glu 70

Gly Glu Glu Thr Val Thr Ala Phe Val Glu Pro Phe Val Ile Leu Leu 90 85

Ile Leu Ile Ala Asn Ala Ile Val Gly Val Trp Gln Glu Arg Asn Ala 100 105

Glu Asn Ala Ile Glu Ala Leu Lys Glu Tyr Glu Pro Glu Met Gly Lys 115 120

Val Tyr Arg Ala Asp Arg Lys Ser Val Gln Arg Ile Lys Ala Arg Asp 130 135 140

Ile Val Pro Gly Asp Ile Val Glu Val Ala Val Gly Asp Lys Val Pro 150 155

Ala Asp Ile Arg Ile Leu Ser Ile Lys Ser Thr Thr Leu Arg Val Asp 170 165

Gln Ser Ile Leu Thr Gly Glu Ser Val Ser Val Ile Lys His Thr Asp 180 185 190

Pro Val Pro Asp Pro Arg Ala Val Asn Gln Asp Lys Lys Asn Met Leu 200 195 205

Phe Ser Gly Thr Asn Ile Ala Ala Gly Lys Ala Val Gly Ile Val Ala 210

Thr Thr Gly Val Ser Thr Glu Ile Gly Lys Ile Arg Asp Gln Met Ala 230 235

Ala Thr Glu Gln Asp Lys Thr Pro Leu Gln Gln Lys Leu Asp Glu Phe

245 250 255

Gly Glu Gln Leu Ser Lys Val Ile Ser Leu Ile Cys Val Ala Val Trp 265 Leu Ile Asn Ile Gly His Phe Asn Asp Pro Val His Gly Gly Ser Trp 280 Phe Arg Gly Ala Ile Tyr Tyr Phe Lys Ile Ala Val Ala Leu Ala Val 295 Ala Ala Ile Pro Glu Gly Leu Pro Ala Val Ile Thr Thr Cys Leu Ala 310 315 Leu Gly Thr Arg Arg Met Ala Lys Lys Asn Ala Ile Val Arg Ser Leu 330 325 Pro Ser Val Glu Thr Leu Gly Cys Thr Ser Val Ile Cys Ser Asp Lys 345 Thr Gly Thr Leu Thr Thr Asn Gln Met Ser Val Cys Lys Met Phe Ile 360 365 Ile Asp Lys Val Asp Gly Asp Val Cys Ser Leu Asn Glu Phe Ser Ile 375 Thr Gly Ser Thr Tyr Ala Pro Glu Gly Glu Val Leu Lys Asn Asp Lys 390 395 385 Pro Val Arg Ala Gly Gln Tyr Asp Gly Leu Val Glu Leu Ala Thr Ile 405 Cys Ala Leu Cys Asn Asp Ser Ser Leu Asp Phe Asn Glu Thr Lys Gly 425 420 Val Tyr Glu Lys Val Gly Glu Ala Thr Glu Thr Ala Leu Thr Thr Leu 435 440 Val Glu Lys Met Asn Val Phe Asn Thr Glu Val Arg Ser Leu Ser Lys 455 460 Val Glu Arg Ala Asn Ala Cys Asn Ser Val Ile Arg Gln Leu Met Lys 475 465 470 Lys Glu Phe Thr Leu Glu Phe Ser Arg Asp Arg Lys Ser Met Ser Val Tyr Cys Ser Pro Ala Lys Ser Ser Arg Ala Ala Val Gly Asn Lys Met 500 505 Phe Val Lys Gly Ala Pro Glu Gly Val Ile Asp Arg Cys Asn Tyr Val 515 520 Arg Val Gly Thr Thr Arg Val Pro Leu Thr Gly Pro Val Lys Glu Lys 535 540

Ile Met Ser Val Ile Lys Glu Trp Gly Thr Gly Arg Asp Thr Leu Arg

545 550 555 560

Cys Leu Ala Leu Ala Thr Arg Asp Thr Pro Pro Lys Arg Glu Glu Met 565 570 575

Val Leu Asp Asp Ser Ala Lys Phe Met Glu Tyr Glu Met Asp Leu Thr 580 585 590

Phe Val Gly Val Val Gly Met Leu Asp Pro Pro Arg Lys Glu Val Thr 595 600 605

Gly Ser Ile Gln Leu Cys Arg Asp Ala Gly Ile Arg Val Ile Met Ile 610 620

Thr Gly Asp Asn Lys Gly Thr Ala Ile Ala Ile Cys Arg Arg Ile Gly 625 630 635 640

Ile Phe Ser Glu Asn Glu Glu Val Thr Asp Arg Ala Tyr Thr Gly Arg 645 650 655

Glu Phe Asp Asp Leu Pro Leu Ala Glu Gln Arg Glu Ala Cys Arg Arg 660 665 670

Ala Cys Cys Phe Ala Arg Val Glu Pro Ser His Lys Ser Lys Ile Val 675 680 685

Glu Tyr Leu Gln Ser Tyr Asp Glu Ile Thr Ala Met Thr Gly Asp Gly
690 695 700

Val Asn Asp Ala Pro Ala Leu Lys Lys Ala Glu Ile Gly Ile Ala Met 705 710 715 720

Gly Ser Gly Thr Ala Val Ala Lys Thr Ala Ser Glu Met Val Leu Ala 725 730 735

Asp Asp Asn Phe Ser Thr Ile Val Ala Ala Val Glu Glu Gly Arg Ala 740 745 750

Ile Tyr Asn Asn Met Lys Gln Phe Ile Arg Tyr Leu Ile Ser Ser Asn 755 760 765

Val Gly Glu Val Val Cys Ile Phe Leu Thr Ala Ala Leu Gly Leu Pro 770 780

Glu Ala Leu Ile Pro Val Gln Leu Leu Trp Val Asn Leu Val Thr Asp 785 790 795 800

Gly Leu Pro Ala Thr Ala Leu Gly Phe Asn Pro Pro Asp Leu Asp Ile 805 810 815

Met Asp Arg Pro Pro Arg Ser Pro Lys Glu Pro Leu Ile Ser Gly Trp 820 825 830

Leu Phe Phe Arg Tyr Met Ala Ile Gly Gly Tyr Val Gly Ala Ala Thr 835 840 845

Val Gly Ala Ala Trp Trp Phe Leu Tyr Ala Glu Asp Gly Pro His

850 855 860

Val Ser Tyr His Gln Leu Thr His Phe Met Gln Cys Thr Glu His Asn 865 870 875 880

Pro Glu Phe Asp Gly Leu Asp Cys Glu Val Phe Glu Ala Pro Glu Pro 885 890 895

Met Thr Met Ala Leu Ser Val Leu Val Thr Ile Glu Met Cys Asn Ala 900 905 910

Leu Asn Ser Leu Ser Glu Asn Gln Ser Leu Leu Arg Met Pro Pro Trp 915 920 925

Val Asn Ile Trp Leu Leu Gly Ser Ile Cys Leu Ser Met Ser Leu His 930 935 940

Phe Leu Ile Leu Tyr Val Asp Pro Leu Pro Met Ile Phe Lys Leu Arg 945 950 955 960

Ala Leu Asp Phe Thr Gln Trp Leu Met Val Leu Lys Ile Ser Leu Pro 965 970 975

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20 25 30

Lys Glu Arg Trp Gly Ser Asn Glu Leu Pro Ala Glu Glu Gly Lys Thr \$35\$ 40 45

Leu Leu Glu Leu Val Ile Glu Gln Phe Glu Asp Leu Leu Val Arg Ile 50 60

Leu Leu Leu Ala Ala Cys Ile Ser Phe Val Leu Ala Trp Phe Glu Glu 65 70 75 80

Gly Glu Glu Thr Ile Thr Ala Phe Val Glu Pro Phe Val Ile Leu Leu 85 90 95

Ile Leu Val Ala Asn Ala Ile Val Gly Val Trp Gln Glu Arg Asn Ala 100 105 110

Glu	Asn	Ala 115	Ile	Glu	Ala	Leu	Lys 120	Glu	Tyr	Glu	Pro	Glu 125	Met	Gly	Lys
Val	Tyr 130	Arg	Gln	Asp	Arg	Lys 135	Ser	Val	Gln	Arg	Ile 140	Lys	Ala	Lys	Asp
Ile 145	Val	Pro	Gly	Asp	Ile 150	Val	Glu	Ile	Ala	Val 155	Gly	Asp	Lys	Val	Pro 160
Ala	Asp	Ile	Arg	Leu 165	Thr	Ser	Ile	Lys	Ser 170	Thr	Thr	Leu	Arg	Val 175	Asp
Gln	Ser	Ile	Leu 180	Thr	Gly	Glu	Ser	Val 185	Ser	Val	Ile	Lys	His 190	Thr	Asp
Pro	Val	Pro 195	Asp	Pro	Arg	Ala	Val 200	Asn	Gln	Asp	Lys	Lys 205	Asn	Met	Leu
Phe	Ser 210	Gly	Thr	Asn	Ile	Ala 215	Ala	Gly	Lys	Ala	Met 220	Gly	Val	Val	Val
Ala 225	Thr	Gly	Val	Asn	Thr 230	Glu	Ile	Gly	Lys	Ile 235	Arg	Asp	Glu	Met	Val 240
Ala	Thr	Glu	Gln	Glu 245	Arg	Thr	Pro	Leu	Gln 250	Gln	Lys	Leu	Asp	Glu 255	Phe
Gly	Glu	Gln	Leu 260	Ser	Lys	Val	Ile	Ser 265	Leu	Ile	Суз	Ile	Ala 270	Val	Trp
Ile	Ile	Asn 275	Ile	Gly	His	Phe	Asn 280	Asp	Pro	Val	His	Gly 285	Gly	Ser	Trp
Ile	Arg 290	Gly	Ala	Ile	Tyr	Tyr 295	Phe	Lys	Ile	Ala	Val 300	Ala	Leu	Ala	Val
Ala 305	Ala	Ile	Pro	Glu	Gly 310	Leu	Pro	Ala	Val	Ile 315	Thr	Thr	Cys	Leu	Ala 320
Leu	Gly	Thr	Arg	Arg 325	Met	Ala	Lys	Lys	Asn 330	Ala	Ile	Val	Arg	Ser 335	Leu
Pro	Ser	Val	Glu 340	Thr	Leu	Gly	Cys	Thr 345	Ser	Val	Ile	Суз	Ser 350	Asp	Lys

Thr Gly Thr Leu Thr Thr